

Efficient



Precise



Profitable

SORTING AND DETECTION SYSTEMS

ECONOMY MEETS ECOLOGY

Hightech-Innovations for every stage of the Circular Economy



TOOL AND MACHINERY PROTECTION

Increased production security and optimum machine utilisation

In plastics processing Sesotec metal detectors and separators are primarily employed to protect processing machinery. They help prevent breakdowns and therefore increase productivity and continuity, providing a very fast return on investment.

Sesotec metal separation systems protect extruders, injection and blow moulding machinery from the effects of metal contaminants in both virgin and particularly recycled granulate. Plasticizer screws and cylinders are securely protected from damage. Extruder and blow moulding machinery breakdowns and downtimes caused by blockages to melt filters and nozzle systems are considerably reduced. Injection moulding machinery is protected from damage to tooling, hot channels and reverse flow barriers.

Sesotec metal detectors prevent damage to milling machinery and colander rollers. For bulk material or packaged product inspection Sesotec units are integrated into conveyor systems.

QUALITY ASSURANCE

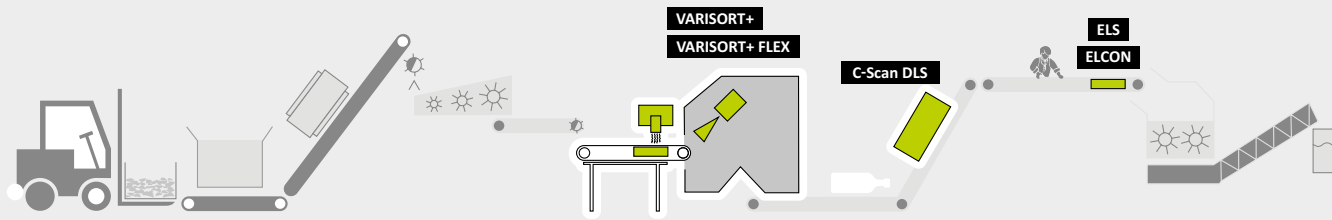
Minimum rejected product and maximum added value

Sesotec metal detection and separation systems guarantee the purity of plastics products and play a vital role in the quality assurance process.

Metal contaminants can block hot channels and cause rejects through under-injection. Metal separation systems prevent this and guarantee first class products. Melt stress (encrustation) is also considerably reduced by the use of metal separators. Less rejected product means less cost and more customer satisfaction.

DETECT - SEPARATE - PROTECT

Sesotec innovations at every stage of



VARISORT+
The VARISORT+ reliably detects and separates plastic types, colors, shapes, metals and foreign bodies in various material streams. The modular design allows integration into any line and operation with a customer-supplied conveyor belt.



FLAKE PURIFIER+ und PO
Sorting systems for highest purity of high-quality flake and regrind material streams: Defective plastics, inks and metallic contaminants are separated automatically and reliably.



ELCON
Area metal detector, which is installed in small conveyor belts e.g. with aluminum profile structure at low material feed heights up to 100 mm.



VARISORT+ FLEX
Complete solution with reject housing and conveyor belt or as individual components: The VARISORT+ FLEX is particularly suitable for integration into existing plants as a renewal or upgrade and for suppliers of complete solutions in the recycling sector.

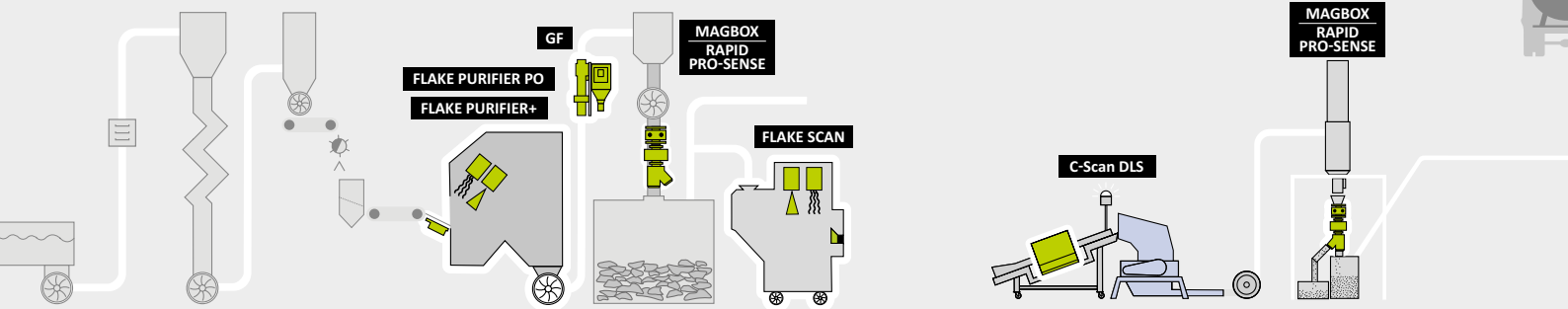


FLAKE SCAN
Analysis system for use in plastics recycling as well as plastics processing: Enables reliable sample analysis by plastic type, colors and metal foreign bodies in minutes.



GF
For both suction and pressure delivery lines in all positions (horizontal, vertical, inclined): Reliable detection is ensured even at high conveying speeds - and without interrupting the conveying flow.

of the Circular Economy



RAPID PRO-SENSE
Metal separator with highest scanning sensitivity to all metals by innovative HRF (High Resolution Frequency) technology. The modular design makes optimal adaptation to customer and material-specific requirements possible.



DLS und DLS-R
Divisible tunnel metal detectors type DLS and DLS-R can be installed (in already existing) conveyor belts and ensure high detection accuracy in the entire pass-band. Typical application is the protection of granulators, shredders and shredders.



PNEUMAG
Magnetic system, for the separation of finest impurities, which can be easily integrated into (already existing) suction or pressure conveying lines.



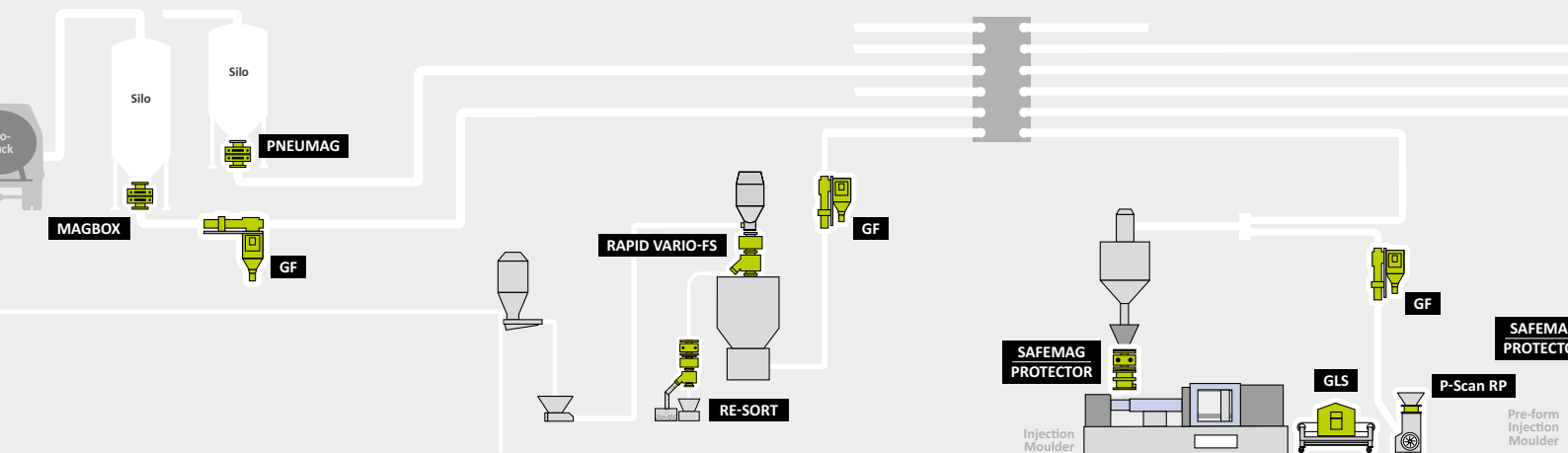
ELS
Area detector for direct installation under the belt of conveyor belts, e.g. for low material feed heights, for the inspection of sprue parts to protect side mills or for quality control of finished plastic parts with regard to core breakage.



MAGBOX MXP
Magnetic system, for separation of finest impurities, which can be easily integrated into (already existing) pipelines.



RAPID VARIO-FS
Metal separator for free fall applications. Metal contaminants are separated by a reject flap („Quick Flap System“) without interrupting the conveying flow.



Material Stock

Conveying



PROTECTOR

Metal separators for smaller material throughputs, installed at the infeed of the processing machines. The PROTECTOR series covers a wide range of applications from standard to highest tactile sensitivity to high temperature.



SAFEMAG

SAFEMAG is a magnet system for confined installation conditions in a particularly flat (60 mm) and robust design which, due to its special construction, does not offer the plastic granulate any possibility of settling.



EXTRACTOR-J

Magnetic separator for use in Jacob tube construction. Granules up to 10 mm grain size can be investigated.



PROTECTOR MF

This device series is mainly used for processing machines with larger material feeds- and thus higher throughput rates. The pneumatic slide gate ensures reliable metal separation even with large material grain sizes.



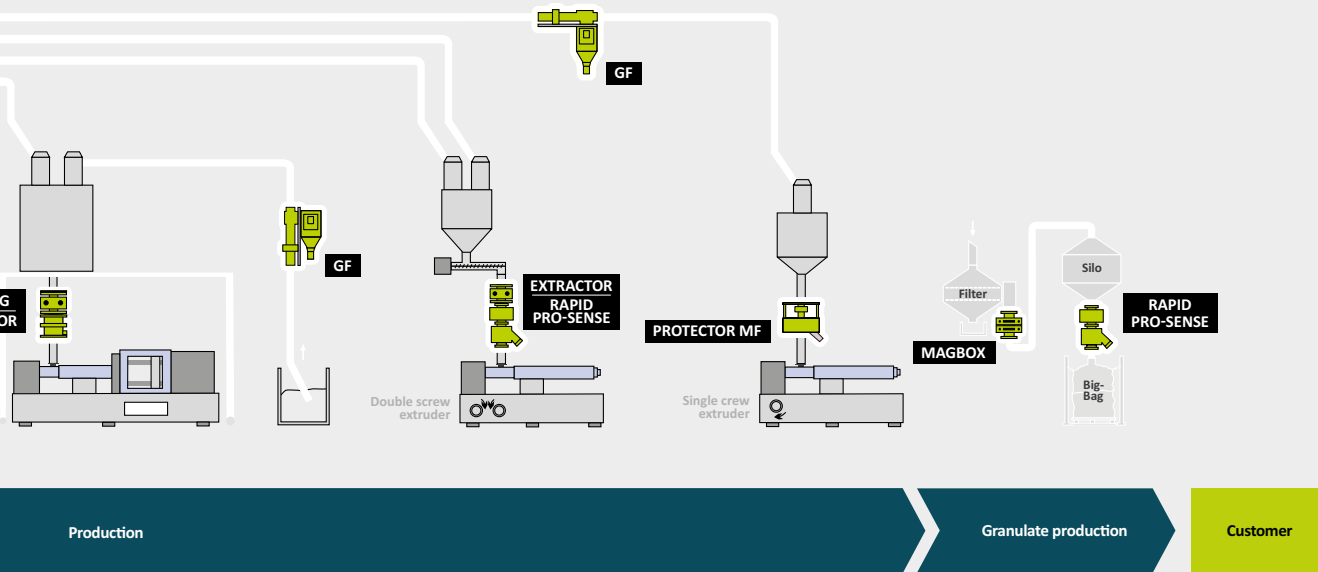
GLS und GLS-R

Closed tunnel metal detector installed in conveyor belts with welded construction in case of higher requirements for scanning sensitivity for core breakage control detection of punch fragments in plastic parts.



P-SCAN

Metal detector for installation in pipelines e.g. for free-fall applications, pneumatic conveying lines or pump lines with minimum space requirement due to extremely reduced metal-free zone.



RE-SORT

With the new metal separation unit, highly contaminated plastic granules can be reliably cleaned of metal contaminants and recovered for reuse in production.



INSIGHT.WEB und VISUDESK

How can you assure that your production processes and machines work properly – best for 24/7? By having all relevant machine data at a glance. Our artificial intelligence based data management serves you with prediction on service maintenance dates and communicates important changes and warnings in an easy and unmissable way. With our visualization software options you are always on the safe side.



RAPID-DUAL

Metal separator for the examination of difficult flowing bulk materials such as foil chips as well as large mass flows.

AT ITS BEST

Artificial Intelligence

Highest detection sensitivity, higher profitability and increased product quality through the use of Artificial Intelligence.

The smart Data Management made by Sesotec is your choice when it comes to optimize your production and maximize your profit.

Talk to us how we can support your operational processes!





Professional solutions for plastic recycling

Over more than three decades Sesotec has become one of the leading manufacturer of contaminant separation and sorting systems. For the recycling industry Sesotec has developed a range of individual machines and complete solutions to remove contaminants from plastic or to sort mixed material flows into pure fractions. They play a pivotal role in ensuring that highly pure recycled material can be profitably reprocessed back into the production cycle. In the PET industry Sesotec systems achieve **recycling rates approaching 100 %**.

Sesotec offers a full range of equipment for contaminant separation – from basic sorting through to precision separation applications. As well as removing magnetic and non-magnetic metals Sesotec systems sort plastics according to type and color. Near infra-red sensors, color and shape sensors and metal sensors are utilized for effective and reliable detection.

Sesotec systems are built to a well-proven modular design concept to ensure that exactly the right combination of components is chosen to meet the customer’s specific application.

Sesotec system world



Detecting and separating contaminants

- Removing contaminants
- metals
 - plastics
 - glass
 - ceramics, porcelain, stones
 - and many others

- Removing from (good material):
- bulk materials
 - liquids and pastes
 - individually packaged product
 - packed and loose items

- Product types
- end-products (food, textiles, plastics, etc)
 - industrial raw materials
 - recycled materials

can be integrated into all types of conveyor systems



Detecting and separating sub-standard products

- Qualitative defects
- incorrect colour
 - agglomerations
 - breakages
 - air inclusions in packs
 - incorrect positioning / distribution
 - and many others

- Quantitative defects:
- incorrect weight
 - count errors (incorrect number of items in package)

- Product types
- end-products (food, textiles, plastics, etc)
 - industrial raw materials
 - recycling materials

can be integrated into all types of conveyor systems



Sorting mixed materials into single fractions

- Sorting mixed materials into single fractions
- glass
 - plastics
 - metals
 - and many others

- Delivery flows:
- bulk materials
 - individually packaged product

- can be integrated into
- conveying systems
 - bulk material flows

Fast and reliable service



Phone support

Many questions and incidents can be solved by phone. Our telephone support is available for you daily from 6 am to 8 pm, on weekends from 8 am to 5 pm.

Service Hotline Sorting

+49 (0) 8554 - 308 129
service.sorting@sesotec.com



Remote Access

Sesotec service technicians have direct access to your machines via Ethernet connection and can perform error analyses, optimizations and parameter settings.

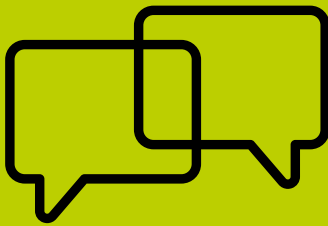
Service Hotline Product Inspection

+49 (0) 8554- 308 173
service.msg@sesotec.com



Augmented Reality

In addition to telephone support and remote access, Sesotec also offers video-based support with augmented reality. This is done via the TeamViewer Pilot App.



Want to learn more about our technology for our manufacturing?

Get in touch with us directly! We look forward to advising you.

You can reach us at:

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